

## Refine Search

Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

### Search Results -

| Terms   | Documents |
|---|-----------|
| L25 and (structur\$ same (poi\$ same supplement\$)) | 0         |

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L26

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Tuesday, December 26, 2006   [Purge Queries](#)   [Printable Copy](#)   [Create Case](#)

| <u>Set</u><br><u>Name</u><br>side by<br>side                                 | <u>Query</u>  | <u>Hit</u><br><u>Count</u> | <u>Set</u><br><u>Name</u><br>result<br>set |
|--|---|----------------------------|--|
| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i> |   |                            |  |
| <u>L26</u>   | L25 and (structur\$ same (poi\$ same supplement\$))   | 0                          | <u>L26</u>                                 |
| <u>L25</u>   | l22 or l23 or l24   | 258                        | <u>L25</u>                                 |
| <i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>                               |   |                            |  |
| <u>L24</u>   | (4954958   5223844   5559707   4819174   5699255   5471392   5543789   5334974   5172321   5208756   5648768)! [PN] | 11                         | <u>L24</u>                                 |
| <i>DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>                          |   |                            |  |
| <u>L23</u>   | ("20040158400"   "5802492"   "6321158") [PN]  | 3                          | <u>L23</u>                                 |
| <u>L22</u>   | ("20040158400"   "5802492"   "6321158") [URPN]  | 244                        | <u>L22</u>                                 |
| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i> |   |                            |  |

|  |     |            |
|--|-----|------------|
| <u>L21</u> L19 or l12 or l16   | 3   | <u>L21</u> |
| <i>DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR</i>                               |     |            |
| <u>L20</u> L19 and structur\$  | 1   | <u>L20</u> |
| <u>L19</u> 20040158400   | 1   | <u>L19</u> |
| <i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>                               |     |            |
| <u>L18</u> 20040158400   | 0   | <u>L18</u> |
| <u>L17</u> L16 and (poi\$ same supp\$)                                       | 1   | <u>L17</u> |
| <u>L16</u> 5802492.pn.   | 1   | <u>L16</u> |
| <u>L15</u> L12 and cat\$   | 0   | <u>L15</u> |
| <u>L14</u> L12 and (poi\$ same supp\$)                                       | 1   | <u>L14</u> |
| <u>L13</u> L12 and (poi\$ same sup\$)  | 1   | <u>L13</u> |
| <u>L12</u> 6321158.PN.   | 1   | <u>L12</u> |
| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i> |     |            |
| <u>L11</u> L10 and suppl\$   | 3   | <u>L11</u> |
| <u>L10</u> L7 and (sign\$ and exit\$)  | 11  | <u>L10</u> |
| <u>L9</u> L7 and (sign\$ same exit\$)  | 0   | <u>L9</u>  |
| <u>L8</u> L7 and (sign\$ with exit\$)  | 0   | <u>L8</u>  |
| <u>L7</u> L6 or L5   | 63  | <u>L7</u>  |
| <u>L6</u> L2 and @pd<=20030204   | 27  | <u>L6</u>  |
| <u>L5</u> L2 and @ad<=20030204   | 62  | <u>L5</u>  |
| <u>L4</u> L2 and @ad<=02042003   | 0   | <u>L4</u>  |
| <u>L3</u> L2 and @ad<=10192005   | 0   | <u>L3</u>  |
| <u>L2</u> L1 and (search\$ with poi\$)                                       | 189 | <u>L2</u>  |
| <u>L1</u> navigat\$ and map\$ and poi  | 688 | <u>L1</u>  |

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L27: Entry 1 of 3

File: USPT

Nov 20, 2001

US-PAT-NO: 6321158

DOCUMENT-IDENTIFIER: US 6321158 B1

TITLE: Integrated routing/mapping information

DATE-ISSUED: November 20, 2001

## INVENTOR-INFORMATION:

| NAME              | CITY     | STATE | ZIP CODE | COUNTRY |
|-------------------|----------|-------|----------|---------|
| DeLorme; David M. | Yarmouth | ME    |          |         |
| Gray; Keith A.    | Yarmouth | ME    |          |         |
| Autry; Gordon     | Standish | ME    |          |         |
| Moulton; Keith A. | Portland | ME    |          |         |

## ASSIGNEE-INFORMATION:

| NAME                       | CITY     | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|----------------------------|----------|-------|----------|---------|-----------|
| DeLorme Publishing Company | Yarmouth | ME    |          |         | 02        |

APPL-NO: 09/144836 [PALM]

DATE FILED: August 31, 1998

## PARENT-CASE:

CROSS REFERENCE TO RELATED PATENT APPLICATION This patent application is a continuation-in-part (CIP) of the David M. DeLorme et al U.S. patent application Ser. No. 08/661,600 filed Jun. 11, 1996, for COMPUTER AIDED ROUTING AND POSITIONING SYSTEM, now U.S. Pat. No. 5,802,492, issued Sep. 1, 1998, which is a CIP of U.S. patent application Ser. No. 08/381,214 filed Jan. 31, 1995 for COMPUTER AIDED ROUTING SYSTEM, now U.S. Pat. No. 5,559,707, issued Sep. 24, 1996, which is a CIP of the David M. DeLorme et al U.S. patent application Ser. No. 08/265,327 filed Jun. 24, 1994 for COMPUTER AIDED MAP LOCATION SYSTEM, now abandoned, and the contents of these related patent applications are incorporated herein by reference.

INT-CL-ISSUED: [07] G01C 21/30

## INT-CL-CURRENT:

| TYPE IPC                 | DATE     |
|--------------------------|----------|
| CIPS <u>G01 C 21/34</u>  | 20060101 |
| CIPS <u>G01 C 21/36</u>  | 20060101 |
| CIPS <u>G06 Q 10/00</u>  | 20060101 |
| CIPS <u>G09 B 29/10</u>  | 20060101 |
| CIPS <u>G08 G 1/0969</u> | 20060101 |

US-CL-ISSUED: 701/201; 701/209, 701/211, 340/995, 342/357.09

US-CL-CURRENT: 701/201; 340/995.16, 342/357.09, 701/209, 701/211

FIELD-OF-CLASSIFICATION-SEARCH: 701/201, 701/200, 701/202, 701/208, 701/209, 701/211, 701/210, 701/212, 701/213, 340/988, 340/990, 340/995, 342/357.06, 342/357.07, 342/357.09, 342/357.13, 342/357.1

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| PAT-NO                                  | ISSUE-DATE     | PATENTEE-NAME  | US-CL   |
|---|----------------|----------------|---------|
| <input type="checkbox"/> <u>4819174</u> | April 1989     | Furuno et al.  | 701/201 |
| <input type="checkbox"/> <u>4954958</u> | September 1990 | Savage et al.  | 701/201 |
| <input type="checkbox"/> <u>5172321</u> | December 1992  | Ghaem et al.   | 701/201 |
| <input type="checkbox"/> <u>5223844</u> | June 1993      | Mansell et al. | 342/357 |
| <input type="checkbox"/> <u>5334974</u> | August 1994    | Simms et al.   | 340/990 |
| <input type="checkbox"/> <u>5471392</u> | November 1995  | Yamashita      | 701/200 |
| <input type="checkbox"/> <u>5543789</u> | August 1996    | Behr et al.    | 340/995 |
| <input type="checkbox"/> <u>5648768</u> | July 1997      | Bouve          | 340/988 |
| <input type="checkbox"/> <u>5699255</u> | December 1997  | Ellis et al.   | 701/212 |

ART-UNIT: 361

PRIMARY-EXAMINER: Nguyen; Tan

ATTY-AGENT-FIRM: Atwood; Peirce Caseiro; Chris A. Scanlan; Patrick R.

ABSTRACT:

An Integrated Routing/Mapping Information System (IRMIS) links desktop personal computer cartographic applications to one or more handheld organizer, personal digital assistant (PDA) or "palmtop" devices. Such devices may be optionally equipped with, or connected to, portable Global Positioning System (GPS) or equivalent position sensing device. Desktop application facilitates user selection of areas, starts, stops, destinations, maps and/or point and/or route information. It optionally includes supplemental online information, preferably for transfer to the PDA or equivalent device. Users' options include route information, area, and route maps. Maps and related route information are configured with differential detail and levels of magnitude. Used in the field, in conjunction with GPS receiver, the PDA device is configured to display directions, text and map formats, the user's current position, heading, speed, elevation, and so forth. Audible signals identifying the next turn along the user's planned route are also provided. The user can pan across maps and zoom between two or more map scales, levels of detail, or magnitudes. The IRMIS also provides for "automatic zooming," e.g., to show greater detail or closer detail as the user approaches a destination, or to larger scale and lower resolution to show the user's overall planned route between points of interest. The IRMIS also enables the user to mark or record specific

locations and/or log actual travel routes, using GPS position information. These annotated location marks and/or "breadcrumb" or GPS log data can be saved, uploaded, displayed, or otherwise processed on the user's desktop geographic information or cartographic system. The IRMIS application and data may be distributed online and/or in tangible media in limited and advanced manipulation formats.

28 Claims, 62 Drawing figures

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L27: Entry 2 of 3

File: USPT

Sep 1, 1998

US-PAT-NO: 5802492

DOCUMENT-IDENTIFIER: US 5802492 A

TITLE: Computer aided routing and positioning system

DATE-ISSUED: September 1, 1998

## INVENTOR-INFORMATION:

| NAME              | CITY     | STATE | ZIP CODE | COUNTRY |
|-------------------|----------|-------|----------|---------|
| DeLorme; David M. | Yarmouth | ME    |          |         |
| Gray; Keith A.    | Dresden  | ME    |          |         |

## ASSIGNEE-INFORMATION:

| NAME                             | CITY     | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|----------------------------------|----------|-------|----------|---------|-----------|
| DeLorme Publishing Company, Inc. | Yarmouth | ME    |          |         | 02        |

APPL-NO: 08/661600   [PALM]

DATE FILED: June 11, 1996

## PARENT-CASE:

CROSS REFERENCE TO RELATED PATENT APPLICATION This patent application is a continuation-in-part (CIP) of the David M. DeLorme et al U.S. patent application Ser. No. 08/381,214 filed Jan. 31, 1995, now U.S. Pat. No. 5,559,707 for COMPUTER AIDED ROUTING SYSTEM which is a CIP of the David M. DeLorme et al U.S. patent application Ser. No. 08/265,327 filed Jun. 24, 1994, now abandoned for COMPUTER AIDED MAP LOCATION SYSTEM and the contents of these related patent applications are incorporated herein by reference.

INT-CL-ISSUED: [06] G01C 21/00, G08G 1/123

## INT-CL-CURRENT:

| TYPE IPC                 | DATE     |
|--------------------------|----------|
| CIPS <u>G08 G 1/0969</u> | 20060101 |
| CIPS <u>G06 Q 10/00</u>  | 20060101 |
| CIPS <u>G01 C 21/36</u>  | 20060101 |
| CIPS <u>G01 C 21/34</u>  | 20060101 |
| CIPS <u>G09 B 29/10</u>  | 20060101 |

US-CL-ISSUED: 701/200; 701/201, 701/208, 701/211, 701/213, 340/990, 340/995

US-CL-CURRENT: 455/456.5; 340/990, 340/995.23, 340/995.24, 701/201, 701/208, 701/211, 701/213

FIELD-OF-CLASSIFICATION-SEARCH: 364/443, 364/444.1, 364/444.2, 364/449.2, 364/449.3, 364/449.4, 364/449.5, 364/449.6, 364/449.7, 340/990, 340/995, 340/991, 340/993, 342/357, 342/457

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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|                          | PAT-NO         | ISSUE-DATE     | PATENTEE-NAME  | US-CL     |
|--------------------------|----------------|----------------|----------------|-----------|
| <input type="checkbox"/> | <u>5208756</u> | May 1993       | Song           | 364/449.1 |
| <input type="checkbox"/> | <u>5543789</u> | August 1996    | Behr et al.    | 340/995   |
| <input type="checkbox"/> | <u>5559707</u> | September 1996 | DeLorme et al. | 364/443   |

ART-UNIT: 364

PRIMARY-EXAMINER: Nguyen; Tan Q.

ATTY-AGENT-FIRM: Caseiro; Chris A. Bohan; Thomas L.

ABSTRACT:

A Computer Aided Routing and Positioning System (CARPS) determines a route along selected waypoints that include a travel origin and a travel destination and intermediate waypoints therebetween. The selected waypoints may be uploaded to or downloaded from various geocoding devices that utilize the Global Positioning System (GPS). A CARPS database incorporates travel information selected from a range of multimedia sources about the transportation routes, waypoints, and geographically locatable points of interest (POIs) selected by the user along the travel route. The CARPS software permits user selection of specified POI types within a user-defined region of interest and user selection of particular POIs from the selected types within the region of interest. The transportation routes, waypoints, POIs and region of interest are identifiable in the computer by coordinate locations of a selected geographical coordinate system. The CARPS software is constructed to present a user-customized travelog for preview on the computer display of the user-defined travel route. The travel planner can preview on the computer display a multimedia travelog particularly customized for the user-defined travel route including multimedia information on the transportation routes, waypoints, and POIs selected by the user. The user can engage in an iterative trip planning process of revising the route and previewing travelogs of revised travel routes until a satisfactory travel route is determined. Hardcopies of customized travel maps of the user-defined travel route can be used in conjunction with a GPS device which has been uploaded with selected waypoint data.

50 Claims, 35 Drawing figures

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L27: Entry 3 of 3

File: USPT

Sep 24, 1996

US-PAT-NO: 5559707

DOCUMENT-IDENTIFIER: US 5559707 A

TITLE: Computer aided routing system

DATE-ISSUED: September 24, 1996

## INVENTOR-INFORMATION:

| NAME              | CITY       | STATE | ZIP CODE | COUNTRY |
|-------------------|------------|-------|----------|---------|
| DeLorme; David M. | Cumberland | ME    |          |         |
| Gray; Keith A.    | Dresden    | ME    |          |         |

## ASSIGNEE-INFORMATION:

| NAME                       | CITY     | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|----------------------------|----------|-------|----------|---------|-----------|
| DeLorme Publishing Company | Freeport | ME    |          |         | 02        |

APPL-NO: 08/381214 [PALM]

DATE FILED: January 31, 1995

## PARENT-CASE:

CROSS REFERENCE TO RELATED PATENT APPLICATION This patent application is a continuation-in-part (CIP) of the David M. DeLorme et al U.S. patent application Ser. No. 08/265,327 filed Jun. 24, 1994 for COMPUTER AIDED MAP LOCATION SYSTEM and the contents of this related patent application are incorporated herein by reference.

INT-CL-ISSUED: [06] G01C 21/00, G08G 1/123

## INT-CL-CURRENT:

| TYPE IPC                 | DATE     |
|--------------------------|----------|
| CIPS <u>G06 Q 10/00</u>  | 20060101 |
| CIPS <u>G08 G 1/0969</u> | 20060101 |
| CIPS <u>G01 C 21/34</u>  | 20060101 |
| CIPS <u>G01 C 21/20</u>  | 20060101 |
| CIPS <u>G09 B 29/10</u>  | 20060101 |

US-CL-ISSUED: 364/443; 364/424.02, 364/444, 364/449, 340/990, 340/995

US-CL-CURRENT: 701/200; 340/990, 340/995.24; 701/23, 701/82

FIELD-OF-CLASSIFICATION-SEARCH: 364/443, 444, 448, 424.02, 364/449, 364/407, 342/357, 340/990, 340/995

See application file for complete search history.

## PRIOR-ART-DISCLOSED:



## U.S. PATENT DOCUMENTS

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|                          | PAT-NO                  | ISSUE-DATE    | PATENTEE-NAME    | US-CL   |
|--------------------------|-------------------------|---------------|------------------|---------|
| <input type="checkbox"/> | <a href="#">4926336</a> | May 1990      | Yamada           | 364/444 |
| <input type="checkbox"/> | <a href="#">4939662</a> | July 1990     | Nimura et al.    | 364/449 |
| <input type="checkbox"/> | <a href="#">5231584</a> | July 1993     | Nimura et al.    | 364/444 |
| <input type="checkbox"/> | <a href="#">5270937</a> | December 1993 | Link et al.      | 364/449 |
| <input type="checkbox"/> | <a href="#">5353034</a> | October 1994  | Sato et al.      | 342/457 |
| <input type="checkbox"/> | <a href="#">5377113</a> | December 1994 | Shibazaki et al. | 364/449 |

## OTHER PUBLICATIONS

Sciso, "Five Desktop Travel Guides Help You Plan Your Vaction", PC Magazine, Nov. 1993.

Software Product Specification, "Automap Road Atlas for Window (V. 3.0.)", Automap, Inc, 1993.

User Manual of Randy Mc.Nally Trip Maker for Window.

ART-UNIT: 234

PRIMARY-EXAMINER: Teska; Kevin J.

ASSISTANT-EXAMINER: Nguyen; Tan

ATTY-AGENT-FIRM: Kane, Jr.; Daniel H. Caseiro; Chris A. Bohan; Thomas L.

## ABSTRACT:

A computer aided routing system (CARS) determines a travel route between a user selected travel origin and travel destination following user selected waypoints along the way. A CARS database incorporates travel information selected from a range of multimedia sources about the transportation routes, waypoints, and geographically locatable points of interest (POIs) selected by the user along the travel route. The CARS software permits user selection of specified POI types within a user defined region of interest and user selection of particular POIs from the selected types within the region of interest. The transportation routes, waypoints, POIs and region of interest are identified in the computer by coordinate locations of a selected geographical coordinate system. The CARS software is constructed to present a user customized travelog for preview on the computer display of the user defined travel route. The travel planner can preview on the computer display a multimedia travelog particularly customized for the user defined travel route including multimedia information on the transportation routes, waypoints, and POIs selected by the user. The user can engage in an iterative trip planning process of revising the route and previewing travelogs of revised travel routes until a satisfactory travel route is determined.

59 Claims, 35 Drawing figures

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PALM Intranet

Application  
Number Submit

IDS Flag Clearance for Application 10769759

IDS  
Information

| Content                               | Mailroom<br>Date | Entry<br>Number | IDS Review                            | Last<br>Modified         | Reviewer |
|---------------------------------------|------------------|-----------------|---------------------------------------|--------------------------|----------|
| M844                                  | 2006-10-26       | 39              | Y <input checked="" type="checkbox"/> | 2006-12-26<br>08:59:20.0 | CNguyen1 |
| M844                                  | 2004-02-03       | 10              | Y <input checked="" type="checkbox"/> | 2004-06-04<br>11:26:01.0 | eburns   |
| <input type="button" value="Update"/> |                  |                 |                                       |                          |          |